

S/775/62/002/000/008/011

112300
AUTHORS: Akulov, A.I., Spitsyn, V.V.TITLE: Automation of the CO₂-shielded welding of tubes and flat-plate structures.

SOURCE: Avtomatizatsiya protsessov mashinostroyeniya. t. 2: Goryachaya obrabotka metallov. Moscow, Izd-vo AN SSSR, 1962, 222-226.

TEXT: Gas-shielded arc welding with a consumable electrode can be automated readily for any desired position in space and for welding of both rotating and nonrotating pipes. The 1956 method of automatic arc welding of rotational butt welding of pipes with back-up rings, developed by the welding lab of the MVTU (Moscow Higher Technical School) imeni Bauman, is described. Welding (WG) was done simultaneously with two electrode wires - a split electrode. A jet of CO₂ protected the WG zone. The WG arc was displaced from the zenith of the tubes being welded against their sense of rotation, so that the arc process would occur above a protective layer of molten metal. The two electrode branch wires could be placed across the WG gap in wide gaps and along it in narrow gaps. Pipes up to 6-mm thick were welded in a single pass (i.e., a single rotation of the pipes); thicker pipes required additional passes. The absence of flux facilitates observation of the weld and accelerates the crystallization of the metal in the WG bath; hence, WG of small-diam pipes becomes possible. Optimal electric parameters (generator characteristics) and the mechanical properties of the weld material obtained are summarized. X-ray photographs

Card 1/2

AKULOV, Aleksandr Ivanovich, kand. tekhn. nauk; RAGAZINA, M.F.,
inzh., ved. red.; SHTERLING, S.Z., dots., red.; FOMICHEV,
P.M., tekhn. red.

[Automatic welding of low-carbon steel pipe in carbon dioxide]
Avtomaticheskaja svarka trub iz malouglerodistoj stali v ugle-
kislom gaze. Moskva, Filial Vses. in-ta nauchn. i tekhn. in-
formatsii, 1958. 11 p. (Peredovoi nauchno-tehnicheskii i pro-
izvodstvennyi opyt. Tema 12. No.M-58-48/3) (MIRA 16:3)
(Pipe, Steel—Welding)
(Protective atmospheres)

AKULOV, Aleksandr Ivanovich, kand. tekhn. nauk; SOKOL, Isaak
Abramovich, inzh.; KOPERIN, V.V., inzh., nauchnyy red.;
PEREVALYUK, M.V., red.izd-va; NAUMOVA, G.D., tekhn. red.

[Welding nonferrous metal pipelines] Svarka truboprovodov iz
tsvetnykh metallov. Moskva, Gosstroizdat, 1962. 140 p.
(MIRA 16:3)

(Pipelines--Welding) (Nonferrous metals--Welding)

PARAKHIN, V.A., kand. tekhn. nauk; FROLOV, V.V., dots., kand. tekhn. nauk; SHORSHOROV, M.Kh., dots., kand. tekhn. nauk; GOSPODAREVSKIY, V.I., inzh.; SUBBOTIN, Yu.V., inzh.; KURKIN, S.A., dots., kand. tekhn. nauk; VINOKUROV, V.A., dots., kand. tekhn. nauk; KAGANOV, N.L., dots., kand. tekhn. nauk; SHASHIN, D.M., kand. tekhn. nauk; AKULOV, A.I., dots., kand. tekhn. nauk; NAZAROV, S.T., dots., kand. tekhn. nauk; YEVSEYEV, G.B., dots., kand. tekhn. nauk; NIKOLAYEV, G.A., prof., doktor tekhn. nauk, red.; TITOVA, V.A., red.; FUFAYEVA, G.I., red.; CHIZHEVSKIY, E.M., tekhn. red.

[Laboratory work on welding] Laboratornye raboty po svarke. Moskva, Rosvuzizdat, 1963. 274 p. (MIRA 16:8)

1. Nauchno-pedagogicheskiy kollektiv Kafedry svarochnogo proizvodstva Moskovskogo vysshego tekhnicheskogo uchilishcha (for all except Nikolayev, Titova, Fufayeva, Chizhevskiy).

2. Zaveduyushchiy kafedroy "Mashiny i avtomatizatsiya svarochnykh protsessov" Moskovskogo vysshego tekhnicheskogo uchilishcha (for Nikolayev).

(Welding—Study and teaching)

L 15539-63

EW(d)/EW(k)/EW(q)/EW(m)/BDS AFFTC/ASD Pf-4 JD/PM

ACCESSION NR: AP3005549

S/0118/63/000/007/0019/0022

69
66

AUTHOR: Akulov, A. I. (Candidate of technical sciences, Lenin prize
recipient); L'yov, N. S. (Candidate of technical sciences)

TITLE: Using radioactive isotopes in automation of welding processes

SOURCE: Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 7, 1963, 19-22

TOPIC TAGS: welding, automatic welding, radioactive isotope

ABSTRACT: An experimental investigation is reported of "the possibility of developing a follower system for a butt and resetting unit that would be a part of the automatic welding-control system." Various tracks of development are discussed. The investigated primary element includes a radiation source and a receiver, and responds to lateral-butt deviation and to deviation of the weld width and thickness from set values. A self-quenching gas counter was selected for sensing the radiation. Data illustrating the sensitivity of MS-12, MS-13, STS-1.

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ACCESSION NR: AP3005549

and STS-5⁷⁴ gas counters¹⁴ is supplied, as well as characteristics of an ionization differential primary element based on MS-13 counters. Block diagrams of the follower and the automatic welding-control system are presented and discussed; only open-type (with gaps 0.1-0.3 mm) butt welds are held possible. Orig. art. has: 5 figures and 3 formulas.

ASSOCIATION: MVTU im. Bauman (Moscow Higher Technical School)

SUBMITTED: 00

DATE ACQ: 29Aug63

ENCL: 00

SUB CODE: IE

NO REF SOV: 000

OTHER: 000

Card 2/2

IVANOV, P.A.; AKULININ, A.I.; SHVED, G.M.

Reinforcing the well-bottom zone with "M" binder; carbamide resin.
Nefteprom. delo no.12:22-25 '63. (MIRA 17:4)

1. Krasnodarskiy filial Vsesoyuznogo neftegazovogo nauchno-issledovatel'skogo instituta.

AKULOV, A.I.

Voltage drop in near-electrode regions of the welding arc.
Avtom. svar. 17 no.9:42-46 S '64. (MIRA 17:10)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. Baumana.

L'VOV, N.S., kand. tekhn. nauk; AKULOV, A.I., kand. tekhn. nauk

Prospects of the automation of arc welding. Mekh. i avtom.
proizv. 18 no.4:18-20 Ap'64.

TOPIC TAGS: titanium, titanium alloy, alloy stress corrosion, alloy corrosion

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720017-3

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720017-3"

L 2445-66 EWT(d)/ENT(m)/ENP(w)/ENA(d)/ENP(v)/T/ENP(t)/ENP(k)/ENP(h)/ENP(z)/
 ACCESSION NR: AP5020161 ENP(b)/ENP(l)/ENA(c) UR/0135/65/000/008/0023/0024
 LJP(c) JD/HM 621.791.85 37
 36
 AUTHORS: Volkov, A. S. (Engineer); Akulov, A. I. (Doctor of technical sciences) B
 TITLE: The effect of manganese on weld properties during welding in carbon dioxide 18
 SOURCE: Svarochnoye proizvodstvo, no. 8, 1965, 23-24
 TOPIC TAGS: weld property, arc welding, welding wire/ Sv 08G2SA welding wire,
 PGSh 4 welding machine 14
 ABSTRACT: To determine the effects of increased Mn content in Sv-08GSA and Sv-
 08G2SA electrode wires (recommended for welding of low carbon and low alloy steels
 in a carbon dioxide atmosphere) on the welded seam properties, 12-mm thick specimens
 of boiling (C = 0.21%, Mn = 0.37, P = 0.038, S = 0.027, Cr = 0.13, Ni = 0.07) and
 dead melt (0.16, 0.49, 0.033, 0.034, 0.08, 0.18 respectively) steel were semiauto-
 matically welded on machine PGSh-4 (I = 430 amp, U = 30-32 V, 280 m/hr, Q_{gas} = 1200
 liter/hr) in a CO₂ atmosphere. The properties of the welds were investigated as a
 function of Mn content in the electrode wire. Wire Sv-08G2S (GOST 2246-60) was used
 with 1.64-2.14% Mn (0.7 C, 0.78 Si, 0.021 P, 0.025 S). It was found that as the Mn
 content in the wire increased from 1.64-2.1% the Mn content in the weld and the Mn
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ACCESSION NR: AP5020161

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burn-off both increased (0.8-1.0% and 0.9-1.1% content, and 0.3-0.5% burn-off for boiling and dead melt steels respectively). The strength and bending properties of the welds are satisfactory over the range of Mn content investigated (pores are completely eliminated with Mn > 2.0%), but the weld deteriorates for Mn > 2.1%. The impact strength of the weld varies slightly over the range and is sufficient. It is established that the whole range of Mn content (1.8-2.1%) specified by GOST 2246-60 for wire Sv-08G2S gives satisfactory welds. Orig. art. has: 5 figures.

ASSOCIATION: Tsentral'naya laboratoriya Podol'skogo zavoda im. S. Ordzhonikidze (Central Laboratory of the Podol'sk Factory); MVTU im. N. E. Baumana (MVTU)

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, IE

NO REF SOV: 004

OTHER: 000

BVK
Card 2/2

L 3271-66 EWT(m)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWA(c) JD/HM

ACC NR: AP5025607

UR/0135/65/000/010/006/0009
621.791.75.01:538.122

AUTHOR: Kovalev, I. M. (Engineer); Akulov, A. I. (Doctor of technical sciences)

TITLE: Stability of welding arc in a transverse magnetic field

SOURCE: Svarochnoye proizvodstvo, no. 10, 1965, 6-9

TOPIC TAGS: arc welding, transverse magnetic field, welding arc stability, welding electrode

ABSTRACT: The possibility of controlling the stability of the welding arc by means of a transverse magnetic field is markedly restricted by the arc's inability to elongate without disrupting when deflected by such a field. It is shown that this restriction may be to a large extent eliminated by stabilizing the arc by means of the flow of the protective gas. This results in equalizing the plasma velocity field and increasing the total velocity of the cathode flow and thus in deforming the arc as a single whole, particularly in the upper (near-cathode) region of the column. Another method of stabilizing the arc is the employment of the so-called "directing wall". In this case, the arc discharge moving in a commercial-frequency transverse magnetic field is bounded by two graphite or cooled copper blocks (see Fig. 1 of the Enclosure). A tungsten electrode and the protective gas are passed through the space between the blocks. The flow rate of the argon is 7-8 liters/min, which precludes

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ACC NR: AP5025607

compression of the arc by the gas flow. The directional profile of the block is parabolic, thereby maximizing the displacement of the anode spot. The device stabilizes the flame so that the anode flow bounces from the walls and is directed counter to the cathode flow, thus displacing the anode spot. Orig. art. has: 11 figures.

ASSOCIATION: MVTU im. Bauman

SUBMITTED: 00

ENCL: 01

SUB CODE: IE, EM

NO REF SOV: 003

OTHER: 001

Card 2/3

L 13073-66 EWT(m)/EWP(w)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c) IJP(c)
ACC NR: AP6000615 MJW/JD/HM/ SOURCE CODE: UR/0135/65/000/012/0009/0010

WB
AUTHOR: Steklov, O. I. (Candidate of technical sciences); Akulov, A. I. (Doctor of technical sciences)

ORG: MYTU im. N. E. Bauman

TITLE: Effect of welding on the corrosion properties of titanium
(BT1-1) units

SOURCE: Svarochnoye proizvodstvo, no. 12, 1965, 9-10

TOPIC TAGS: electron beam welding, arc welding, argon, titanium, corrosion rate, corrosion resistance, solid mechanical property

ABSTRACT: The corrosion properties of welded units made of BT1-1 titanium (0.08% Fe, 0.04% Si, 0.05% C and 0.0007% H₂) were studied. The mechanical properties of the titanium sheet were $\sigma_{uts} = 52 \text{ kg/mm}^2$,

$\sigma_{0.2} = 41 \text{ kg/mm}^2$, elongation = 39%, RA = 51% and bend angle = 180°. Conditions are given for argon arc and electron beam welding. Current and voltage were constant (130 amps, 11 v for argon arc and 50 amps, 18 v for electron beam welding) while welding speed varied from 13.3 to 30 m/hr and the linear heating rate from 226 to 510 cal/cm·sec for argon

UDC: 621.791.052.004.12.011:669.295.5

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ACC NR: AP6000615

arc welding; for electron beam welding, these were kept constant at 20 m/hr and 362 cal/cm·sec. For argon arc welding, the temperature distribution in the weld zone was given as a function of distance from the weld and of time. The temperature and linear heating rate was observed to rise as welding speed decreased. The result was a greater seam width and a more extensive heat-affected zone. The above mentioned mechanical properties were determined for welds made at different speeds. The cross section of the samples was 15 × 2 mm. The only mechanical parameter significantly affected by the change in welding speed was the bend angle. For argon arc welding, the optimum speed was 20 m/hr. Higher speeds caused quenching while lower speeds produced an enlarged grain size. With electron beam welding, the heat-affected zone was smaller and the plastic properties were better. Since residual stresses decrease corrosion resistance in aggressive media, these stresses were determined as a function of distance from the weld. The maximum value was obtained at the weld and subsequently dropped off, becoming zero at about 20 mm and compressive above 20 mm. The stresses were obtained with a mechanical tensometer according to the MVTU method. It was found that the residual stress depended neither on the operating conditions nor on the method of welding. For the corrosion tests, two types of media were used: 20% HCl solutions at room temperature and

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ACC NR: AP6000615

3.5% HCl solutions at 80°C, as well as 2.5% Br, 15% H₂O and methyl alcohol as remainder. The corrosion test samples were evaluated by bend testing, by the general rate of corrosion and by resistance to corrosion cracking during uniaxial bending. The differences in operating conditions were compared and little change in bend properties or corrosion cracking was noted between the welding methods. However, the weld region generally cracked more than the heat-affected zone or the base metal itself. Moreover, corrosion rate was greater in the weld seam. Macrographs showing corrosion cracking were presented to illustrate the lower crack resistance of the weld. Orig. art. has: 7 figures, 1 table.

SUB CODE: 11/3/ SUBM DATE: 00/ ORIG REF: 002/ OTH REF: 001

Card

3/3

DR

L 29688-66 EWP(k)/EWT(m)/I/EWP(v)/EWP(t)/ETI JD/HM

ACC NR: AP6008817

SOURCE CODE: UR/0135/66/000/003/0032/0034

AUTHORS: Akulov, A. I. (Doctor of technical sciences); Chernyshev, G. G. (Engineer);
Spitsyn, V. V. (Engineer)

ORG: MVTU im. N. E. Bauman (MVTU)

TITLE: Automatic butt welding of nonrotating low-carbon steel pipes in carbon dioxide

SOURCE: Svarochnoye proizvodstvo, no. 3, 1966, 32-34

TOPIC TAGS: Pipe, low carbon steel, butt welding, automatic welding, welding technology/ Sv-08G2S electrode wire, St3 steel

ABSTRACT: To improve the quality of butt welding of nonrotating low-carbon steel pipes, a method which uses lateral oscillations of the welding electrode was developed at MVTU (A. I. Akulov and V. V. Spitsyn. Svarka trub v uglerodistom gaze s poperechnymi kolebaniyami elektroda. Svarochnoye proizvodstvo, 1960, No. 9). Low-carbon steel pipes (195 x 6, 219 x 8, and 273 x 8 mm diameter) with V-shaped butts were welded with Sv-08G2S electrode wire. The root welds (with 2-mm clearance) were performed with a vibration amplitude of 6--8 mm and 40--90 cpm and the finishing welds with an amplitude of 12--14 mm (to cover the V-opening). Curves of welding current as a function of electrode speed (0--40 m/hr) are presented and sections at different positions in the butt weld are shown. To determine the strength of the

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UDC: 621.791.753.9:661.97:62-462

L 36792-66 EWP(k)/EWT(m)/T/EWP(v)/EWP(t/ETI JD/MT

ACC NR: AP6019431

SOURCE CODE: UR/0135/66/000/006/0031/0033

AUTHOR: Akulov, A. I. (Doctor of Technical Sciences); Spitsyn, V. V.
(Engineer); Chernyshov, G. G. (Engineer)

ORG: MVTU im. N. E. Bauman

TITLE: Special characteristics of automatic welding in carbon dioxide
with a split electrode

SOURCE: Svarochnoye proizvodstvo, no. 6, 1966, 31-33

TOPIC TAGS: automatic welding, carbon dioxide, welding electrode

ABSTRACT: The article constitutes a review of the industrial possibilities of welding in carbon dioxide with a split electrode. In present day welding practice, it is common to use one-side welding for tube joints and sheet joints. In such cases, the quality of the welded joint is determined by the quality of the root of the seam. It has been found that welding with a split electrode guarantees the stability of the mechanical properties of the welded joint. This is illustrated by photographs in the article. In general, it is concluded that the formation of the welded seam, the regulation of the depth of fusion along the axis of the seam, and the burning stability of the arc, in

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B

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UDC: 621.791.753.9.01:661.97:669.15-194

AKULOV, A.N.; SEMKOV, B.I.; SIROTOV, I.I., red.

[Mechanization of lumbering and floating] Mekhanizatsiia leso-
zagotovok i lesosplava. Moskva, 1957. 215 p. (MIRA 11:9)
(Lumbering)

4003520

AKULOV

"Pathologo-Anatomical Changes in the So-called Malignant Form of Foot-and-Mouth Disease in Guinea Pigs". Vet. spetsizlist na sots. stroyka, 1931, No 9 - 10. (Bibliography from article Foot and Mouth Disease by A. L. Skomorokhov, State Publishing House for Agricultural Literature, Moscow/Leningrad 1947.)

SO:: ~~SECRET~~ U-1625, 11 January 1952, Restricted

AKULOV

"Pathologo-Anatomical Changes in Foot-and-Mouth Disease". The symposium, Yashchur v sovremennom osveshchenii, Sel'khozgiz, 1932. (Bibliography from article Foot and Mouth Disease by A. L. Skomorokhov, State Publishing House for Agricultural Literature, Moscow/Leningrad 1947.)

SO: ~~000000~~ U-1625, 11 January 1952, Restricted

AKULOV, A.V.

Pathological changes in experimental foot-and-mouth disease
in rabbits. Veterinariia 32 no.1: 20-24 Ja '55. (MLRA 8:2)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.
(FOOT-AND-MOUTH DISEASE)

PROKHOROV, A.V.; POMINA, A.Ya; AKULOV, A.V.

Blood drop agglutination for diagnosing tuberculosis in poultry.
Veterinariia 32 no.11:42 N '55. (MLRA 8:12)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.
(TUBERCULOSIS IN POULTRY) (AGGLUTINATION)

PODDUBSKIY, I.V., professor; FOMINA, A.Ya., kandidat veterinarnykh nauk;
AKULOV, A.V., kandidat veterinarnykh nauk.

Diagnosis and prophylaxis of tuberculosis in chicken. Veteri-
nariia 33 no.2:24-26 F '56. (MLRA 9:5)
(TUBERCULOSIS IN POULTRY)

USSR/Diseases of Farm Animals. Diseases Caused
by Viruses and Rickettsiae.

R-1

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92695

Author : Bol', B. K., Akulov, A. V.

Inst : State Scientific Control Institute for
Veterinary Preparations.

Title : Pathological and Histological Changes in the
Organs of Bovines during Experiments with
Plague.

Orig Pub : Tr. Gos. nauchno-kontrol'n. in-ta vet.
preparatov, 1957, 7, 165-176

Abstract : The organs of calves infected experimentally
with plague virus were studied. Degenerative
changes were noted in the liver, kidneys,
and other parenchymal organs including the

Card : 1/6

USSR/Diseases of Farm Animals. Diseases Caused
by Viruses and Rickettsiae.

R-1

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92695

masum showed evidence of hyperemia. The mucosa glands indicated degeneration and necrobiosis, while the connective tissue base was infiltrated with lymphoid and plasmatic cells with a small admixture of eosinophils. In some areas of the mucosa, the cell infiltration was so manifest that it obscured the contours of the glands. In addition, in separate areas mucosa was necrotized and perforated with hemorrhages. The sharpest changes were noted in the duodenum and jejunum. The mucosa of the latter was almost completely deprived of tectorial epithelium. The

Card : 3/6

USSR/Diseases of Farm Animals. Diseases Caused
by Viruses and Rickettsiae.

R-1

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92695

desquamation of the epithelium encroached on the excretory ducts. The mucosa glands showed signs of profound degenerative changes and a complete disturbance of secretion (mass pyknosis of the nuclei and disintegration of the gland cells). The vessels of the mucosa and the submucosa were heavily injected and their adventitia infiltrated with lympholeukocytes. The submucosa membrane was in a state of serous inflammatory edema. Solitary follicles and Payer's patches were in a state of hyperplasia while being affected at the same time with coagulation necrosis during the developmental stage. In all cases

Card : 4/6

11

USSR/Diseases of Farm Animals. Diseases Caused
by Viruses and Rickettsiae.

R-1

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92695

organs were considerably less pronounced.
This difference is apparently explained
by the absence of any complications arising
from the secondary microflora which
as a rule accompanies the course of the
natural forms of the plague.

Card : 6/6

12

AKULOV, A.V.

PROKHOROV, A.V., kand.vet.nauk; AKULOV, A.V., kand.vet.nauk.

Diagnostic value of the blood drop agglutination test in
fowl tuberculosis. Veterinariia 35 no.2:45-48 F '58.

(MIRA 11:2)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.
(Tuberculosis in poultry)

AKULOV, A.V.

FOMINA, A.Ya., kand.vet.nauk; AKULOV, A.V., kand.vet.nauk.

Role of eggs in the epizootology of fowl tuberculosis; authors' abstract [with summary in English]. Veterinariia 35 no.2:48-49 F '58.

(MIRA 11:2)

(Tuberculosis in poultry)

IVANOV, B.G., doktor, prof.; AKULOV, A.V., dots.

On Professor Dobbershtein's book "Rules of veterinary autopsy."
Veterinariia 35 no.3:84 Mr '58. (MIRA 11:3)

1. Zaveduyushchiy laboratoriyey patanatomii Vsesoyuznogo instituta
eksperimental'noy veterinarii (for Ivanov).
(Autopsy)

FOMINA, A.Ya., kand.veterinarnykh nauk; AKULOV, A.V., kand.veterinarnykh nauk

Experimental data on the study of the role of eggs in the epizootology
of tuberculosis in poultry. Trudy VIEV 22:43-58 '59. (MIRA 13:10)
(Tuberculosis in poultry)

KAZAKOVA, M.V., kand.veterinarnykh nauk; AKULOV, A.V., kand.veterinarnykh nauk

Correlation of electrocardiographic and morphological changes in the heart with clinical data. Trudy VET 22:258-273 '59.(MIRA 13:10)
(Electrocardiography) (Heart--Diseases)

PICHUGIN, Leonid Mikhaylovich; AKULOV, Anatoliy Vladimirovich;
BYRDINA, A.S., red.; GUREVICH, M.M., tekhn.red.; PEVZNER,
V.I., tekhn.red.

[Practical studies on the pathological anatomy of domestic
animals; manual on the study of micropreparations] Prakti-
cheskie zaniatiia po patologicheskoi anatomii domashnikh zhivotnykh;
posobie po izucheniiu mikropreparatov. Moskva, Gos.izd-vo sel'khoz.
lit-ry, 1960. 255 p. (MIRA 14:4)
(Veterinary histology)

AKULOV, A. V., Doc Vet Sci -- (diss) "Pathomorphology and pathogenesis of tuberculosis in chickens." Moscow, 1960. 21 pp; (All-Union Inst of Experimental Veterinary, All-Union Order of Lenin Academy of Agricultural Sciences im V. I. Lenin); 180 copies; price not given; (KL, 25-60, 137)

FOMINA, A. Ya., AKULOV, A. V. and SHISHKINA, E. Ia.

"Determining of specification of type allergens during diagnostics of
hen tuberculosis."

Veterinariya, Vol. 37, No. 2, 1960, p. 38

AKULOV, A. V., MITROPOL'SKIY, A. S., SHUBIN, V. A., KOVALENKO, Ya. R., FOMINA, A. Ya.,
FEOKTISTOV, P. N. (deceased).

"Observation of the course of the chronic respiratory disease in poultry, Veterinariya,
Vol. 37, No. 12, p. 34, 1960."

KOVALENKO, Ya.R.; FOMINA, A.Ya.; FEOKTISTOV, P.N. [deceased]; AKULOV,
A.V.; MITROPOL'SKIY, A.S.; SHUBIN, V.A.

Observations on the course of the chronic respiratory disease in
chickens. Veterinariia 37 no.12:34-42 D '60. (MIRA 15:4)
(Poultry--Diseases and pests) (Respiratory organs--Diseases)
(Mycoplasma gallinarum)

BOL', K.G., prof. (1871-1959); BOL, B.K., prof. (1897-1958). Primali
uchastiye: AKULOV, A.V., dots.; FEDOROV, A.I., prof.; NALETOV,
N.A., doktor veter. nauk, prof., red.; YEMEL'YANOVA, N.I., red.;
PEVZNER, V.I., tekhn. red.; TRUKHINA, O.N., tekhn. red.

[Fundamentals of the pathological anatomy of farm animals] Osno-
vy patologicheskoi anatomii sel'skokhoziaistvennykh zhivotnykh.
Izd. 3. Moskva, Gos. izd-vo sel'khoz. lit-ry, zhurnalov i pla-
katov, 1961. 571 p. (MIRA 15:3)

(Veterinary anatomy)

(Veterinary pathology)

FCMINA, A. Ya., kand. vet. nauk; AKULOV, A. V., kand. vet. nauk;
SHISHKINA, Ye. Ya., vet. vrach

Specificity of type antigens in the diagnosis of avian tuberculosis.
Probl. tub. no.7:114-115 '61. (MIRA 14:12)

1. Iz laboratorii po izucheniyu bolezney ptits, patologicheskoy
anatomii i laboratorii tuberkuleza i paratuberkuleza Vsesoyuznogo
instituta eksperimental'noy veterinarii (dir. Ya. R. Kovalenko)

(TUBERCULOSIS IN POULTRY)
(ANTIGENS AND ANTIBODIES)

AKULOV, A.V., doktor veterinarnykh nauk; KONSTRIMAVICHUS, L.M.
[Kontrimavicius, L.], kand. veterinarnykh nauk;
NOVIKOV, A.I.

Case of white muscle disease in ducklings. Veterinariia 40
no.6:62-63 Je '63. (MIRA 17:1)

1. Vsesoyuznyy institut eksperimental'noy veterinarii (for
Akulov, Kontrimavichus). 2. Direktor Severo-Kazakhstanskoy
oblastnoy veterinarno-bakteriologicheskoy laboratorii (for
Novikov).

IBRAGIMOV, A.A., aspirant; AKULOV, A.V., prof.

Pathomorphological diagnosis of typhlchepatitis in turkeys.
Veterinariia 41 no.4:38-41 Ap '65. (MIRA 18:6)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.

YASNOVA, G.P., aspirant; AKULOV, A.V., prof., nauchnyy rukovoditel'
raboty

Pathoanatomical changes in acute poisoning with phosphorus
organic insecticides. Veterinariia 42 no.9:60-61 S '65.
(MIRA 18:11)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.

GOLIKOVA, G.A., aspirant; AKULOV, A.V., nauchnyy rukovoditel' raboty, prof.

Studying the pathomorphology of toxoplasmosis in swine.
Veterinariia 42 no.11:53-55 N '65.

(MIRA 19:1)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.

1. AKULOV, A. Ye.
2. USSR (600)
4. Condensers (Steam)
7. Repair of condensers. Rablennerg., 2, no. 12, 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

RADCHENKO, A.P.; AKULOV, B.I., inzh. po tekhnike bezopasnosti

For perfect organization of underground transportation. Bezop.truda
v prom. 6 no.6:10-11 Je '62. (MIRA 15:11)

1. Nachal'nik vnutrishakhtnogo transporta shakhty "Skipovaya"
Leninogorskogo polimetallichesкого kombinata Vostochno-Kazakhstanskoy
oblasti (for Radchenko).

(Kazakhstan--Mine haulage)

MAZEL', Zinoviy Yevgen'yevich, kand.tekhn.nauk; USKOV, Anatoliy Pavlovich, inzh.; YAKOBSON, Andrey Genrikhovich, inzh.; PLAVINSKIY, V.I., kand.tekhn.nauk, nauchnyy red.; PETROV, G.D., inzh., nauchnyy red.; AKULOV, D.A., red.; SOKOL'SKIY, I.F., tekhn.red.

[Cableways on construction sites of the Stalingrad Hydroelectric Power Station] Kanatnye dorogi na stroitel'stve Stalingradskoi GES. Moskva, Gidroproekt, 1959. 72 p. (MIRA 13:6)
(Stalingrad Hydroelectric Power Station) (Cableways)

GOR'KOV, Aleksandr Vasil'yevich; CHLEK, Yuriy Isaakovich; SHLAYN, I.B.,
kand.tekhn.nauk, retsenzent; MEYBOM, R.V., inzh., retsenzent;
PETROV, G.D., inzh., nauchnyy red.; MAR'YANSKIY, L.P., red.;
AKULOV, D.A., red.; SOKOL'SKIY, I.F., tekhn.red.

[Reconstruction of quarries supplying building materials to the
Stalingrad Hydroelectric Power Station] Rekonstruktsiya kar'erno-
go khoziaistva dlia stroitel'stva Stalingradskoi GES. Moskva,
Gidroproekt, 1959. (MIRA 13:6)

(Stalingrad Hydroelectric Power Station)
(Quarries and quarrying) (Sand and gravel plants)

AKULOV, F.I., inzh.; POYARKOV, P.G., inzh.

Preventing sulfide dust explosions in copper mines. Bezop.
truda v prom, 3 no.10;11-13 Q '59. (MIRA 13:2)

1. Copper mines and mining--(Safety measures)
(Mine explosions)

AKULOV, Fedor Ivanovich; PARTSEVSKIY, V.N., red. izd-va; SABITOV, A.,
tekhn. red.

[Block caving in a copper-pyrite mine] Etazhnoe prinuditel'noe
obrushenie na mednokolchedannom rudnike. Moskva, Gos. nauchno-
tekhn. izd-vo lit-ry po gornomu delu, 1961. 96 p.

(MIRA 14:9)

(Copper mines and mining)

YEGOROVA, I.A., dotsent, kandidat fiziko-matematicheskikh nauk; AKULOV, G.P., dotsent, otvetstvennyy redaktor; AUERGAKH, L.K., tekhnicheskii redaktor

[Mathematical analysis: differential equations; a manual for students in pedagogical institutes] Matematicheskii analiz: Differentsial'nye uravneniia; uchebnoe posobie dlia studentov pedagogicheskikh institutov. Leningrad, Leningradskii gos. pedagog. institut im. A.L.Gerstena, 1956. 109 p. (MLRA 9:9)
(Differential equations)

SMIRNOV, Vladimir Ivanovich, akad.; AKULOV, G.P., red.; VOLCHOK, K.M., tekhn. red.

[Course in higher mathematics] Kurs vysshei matematiki. Izd. 3.
Moskva, Gos. izd-vo tekhniko-teoret. lit-ry. Vol. 4. 1957. 812 p.
(MIRA 11:11)

(Mathematics)

FIKHTENGOL'TS, Grigoriy Mikhaylovich; AKULOV, G.P., red.; POL'SKAYA, P.G.,
tekhn.red.

[Course in differential and integral calculus] Kurs differentsial'-
nogo i integral'nogo ischisleniia. Izd.4, ispr. Moskva, Gos. izd-vo
fiziko-matematicheskoi lit-ry. Vol.1. 1958. 607 p. (MIRA 11:12)
(Calculus, Differential) (Calculus, Integral)

L 17372-66 EWT(m)/EWP(t) DIAAP/IJP(c) JD

ACC NR: AP6004508

SOURCE CODE: UR/0186/65/007/005/0629/0630

AUTHOR: Murin, A. N.; Nefedov, V. D.; Kirin, I. S.; Leonov, V. V.; Zaytsev, V. M.; Akulov, G. P.

ORG: none

TITLE: Formation of fluorine-containing compounds of xenon during β -radiation of ^{131}I contained in iodine pentafluoride 51 B 19

SOURCE: Radiokhimiya, v. 7, no. 5, 1965, 629-630

TOPIC TAGS: xenon, fluorine, beta radiation, iodine, elemental halogen, fluorine compound, radioisotope

ABSTRACT: Free Xe^{131} was accumulated by bubbling helium for 8 hours at room temperature through a liquid J^{131}F_5 . The origin of this free Xe^{131} is traced to the intermediate formation of a molecular ion $[\text{Xe}^{131}\text{F}_5]^+$. After removal of free Xe^{131} , the β -radiation material was hydrolyzed and the products of hydrolysis were subjected to reduction with various reducing agents. In the course of treatment with HCl the xenon-fluorine compounds were reduced to free xenon. No free xenon was obtained when KJ, hydroxylamine, or Fe^{2+} were used as reducing agents. It was found that

UDC: 546.295'16 : 541.28 : 546.155'161

Card 1/2

L 17372-66

ACC NR: AP6004508

the xenon-fluorine compounds are more volatile than the starting $J^{131}F_5$.

/Editor's note: J is the Russian periodic symbol for iodine./

SUB CODE: 07/ SUBM DATE: 28Dec64/ ORIG REF: 003/ OTH REF: 003

Card 2/2 nst

AKULOV, I. A.

USSR/Mines
Machines, Loading
Coal

Apr 1948

"First Experience With the Operation of the S-153 Coal-
Loading Machine in the Mines of the Tula Coal Combine,"
I. A. Akulov, Engr, 2 pp

"Mekh Trud i Tyazh Rabot" No 4

Describes construction and performance of subject
machines, produced by factories of Ministry of Machine
Construction and used for first time in 1947 in shafts
of TulaUgol Combine.

77T90

VALITOV, R.A. ; ALEKSANDROV, A.I.; AKULOV, I.I.

Semiconductor measuring instruments. Poluprov. prib. 1 ikh prim.
no.2:366-376 '57. (MIRA 11:6)
(Transistors) (Radio measurements)

AKULOV, I.I.; BARZHIN, V.Ya.; VALITOV, R.A.; GARMASH, Ye.N.; KUCHIN,
L.F.; NAYDEROV, V.Z.; PUTSENKO, V.V.; SEMENOVSKIY, V.K.;
SIMONOV, Yu.L.; TARASOV, V.L.; TEREKHOV, N.K.; SHEVYRTALOV,
Yu.B.; YUNDENKO, I.N.; CHISTYAKOV, N.I., otv. red.; KOKOSOV,
L.V., red.; TRISHINA, L.A., tekhn.red.

[Theory and design of principal radio circuits using transistors]
Teoriia i raschet osnovnykh radiotekhnicheskikh skhem na tranzi-
storakh. [By] I.I.Akulov i dr. Moskva, Sviaz'izdat, 1963. 452 p.
(MIRA 16:8)

(Transistor circuits) (Electronic circuits)

AKULOV, I.I.; BARZHIN, V.Ya.; VALITOV, R.A.; GARMASH, Ye.N.;
KUCHIN, L.F.; NAYDEROV, V.Z.; PUTSENKO, V.V.;
SEMENOVSKIY, V.K.; SIMONOV, Yu.L.; TARASOV, V.L.;
TEREKHOV, N.K.; SHEVYRTALOV, Yu.B.; YUNDENKO, I.N.;
CHISTYAKOV, N.I., prof., otv. red.; KOKOSOV, L.V., red.

[Theory and design of basic radio circuits using
transistors] Teoriia i raschet osnovnykh radiotekhnicheskikh skhem na tranzistorakh. Moskva, Sviaz', 1964.
454 p. (MIRA 18:8)

AKULOV, K. I.

AKULOV, K. I. — "Experimental Data for Determining the Limits of the Admissible Concentration of Inorganic Arsenic Compounds of Arsenic in the Water of Reservoirs." First Moscow Order of Lenin Med Inst, Moscow, 1955. (Dissertation For the Degree of Candidate in Medical Sciences).

SO: Knizhnaya letopis'. No. 37. 3 September 1955

AKULOV, K.I.; ZAYTSEVA, A.F.; YUNDZEL', N.K.

Hygienic standardization of the permissible amounts of soluble compounds of arsenic, lead, and mercury in a natural water.
Trudy 1-go MMI 5:143-147 '59. (MIRA 13:8)

1. Iz kafedry kommunal'noy gigiyeny (zav. - cheln-korrespondent chlen-korrespondent AMN SSSR prof. S.N. Cherkinskiy) 1-go Moskovskogo ordena Lenina meditsinskogo instituta im. I.M. Sechenova.

(WATER--POLLUTION) (ARSENIC--PHYSIOLOGICAL EFFECT)
(LEAD--PHYSIOLOGICAL EFFECT) (MERCURY--PHYSIOLOGICAL EFFECT)

CHERKINSKIY, S.N., prof.; AKULOV, K.I., kand.med.nauk; RUBLEVA, M.N.,kand.med.nauk

Hygienic evaluation of vinyl plastic pipes for use in water supply lines. Gig. i san. 24 no.7:69-71 J1 '59.

(MIRA 12:9)

1. Iz kafedry kommunal'noy gigiyeny I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova. 2. Chlen-korrespondent AMN SSSR (for Cherkinskiy).

(VINYL COMPOUNDS

vinyl plastic pipes for use in water supply lines, hyg. evaluation (Rus))

(WATER SUPPLY

same)

AKULOV, K.I., kand.med.nauk; RUBLEVA, M.N., kand. med.nauk

Hygienic evaluation of vinylplastic pipes in the water supply
system. Gig. i san. 25 no. 6:56-58 Je '60. (MIRA 14:2)

1. Iz kafedry kommunal'noy gigiyeny I Moskovskogo ordena Lenina
meditsinskogo instituta imeni I.M. Sechenova.
(PIPE, PLASTIC)

CHERKINSKIY, S.N., prof.; AKULOV, K.I., assistant; RUBLEVA, M.N., assistant

Use of plastic water pipes. Gig.1 san. 26' no.1:95-99 Ja '61.
(MIRA 14:6)

1. Iz kafedry kommunal'noy gigiyeny I Moskovskogo ordena Lenina
meditsinskogo instituta imeni I.M.Sechenova. 2. Chlen-korrespondent
AMN SSSR (for Cherkinskiy).
(PLASTICS) (WATER PIPES)

CHERKINSKIY, S.N., prof.; FRIDLYAND, S.A., kand.med.nauk; KRASOVSKIY, G.N.,
AKULOV, K.I., kand.med.nauk; RUBLEVA, M.N., kand.med.nauk

Conditions for the discharge of industrial wastes containing the
flotation reagents: Vetluzhsky oil and Cheremkhovsky tar. Gig. i
san. 26 no.8:17-23 Ag '61. (MIRA 15:4)

1. Iz kafedry kommunal'noy gigiyeny I Moskovskogo ordena Lenina
meditsinskogo instituta imeni I.M.Sechenova.
(FLOTATION--HYGIENIC ASPECTS) (WATER--POLLUTION)

AKULOV, K.I.

"investigations of the hygienic standardization of certain organophosphorus insecticides in reservoirs,"

Report presented at the 2nd All-Union Scientific Conference on the Hygiene and Toxicology of Pesticides, Ministry of Health USSR Committee on the Study and Regulation of New Poisonous Chemicals of the Main State Sanitary Inspection USSR and Kiev Institute of Labor Hygiene and occupational Diseases, Kiev 17-19 Oct 1962.
(Gigiyena i Sanitariya, No. 3, 1963 p. 104-105.)

Kiev Institute of Labor Hygiene and Occupational Diseases.

AKULOV, K.I.

Experimental basis for the permissible concentration of methyl
systox in bodies of water. San.okhr.vod.ot zagr.prom.stoch.vod
no.5:107-128 '62. (MIRA 17:6)

1. Kafedra kommunal'noy gigiyeny I Moskovskogo ordena Lenina
meditsinskogo instituta imeni I.M.Sechenova.

AKULOV, K.I.

Experimental basis for the maximum permissible concentration of M-81 phosphorous-bearing insecticides in the water of reservoirs and rivers. San. okhr. vod. ot zagr. prom. stoeh. vod. no.6:147-164 '64. (MIRA 18:3)

1. Kafedra kommunal'noy gigiyeny I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.

L 40958-66 EWT(m)/EWP(t)/ETI IJR(a) -WB/JD

ACC NR: AR6019462 (A) SOURCE CODE: UR/0081/66/000/002/K010/K010

AUTHOR: Akulov, K. I.; Rubleva, M. N.

TITLE: Sanitary evaluation of three samples of anticorrosive coatings recommended in cold industrial drinking water supply practice

SOURCE: Ref zh. khim, Part II, Abs. 2K86

REF SOURCE: Sb. Khim factory vneshn. sredy i ikh gigiyen. znachenije., M., 1965, 112-114

TOPIC TAGS: corrosion protection, protective coating, silicate, water supply system

ABSTRACT: The use of a silicate anticorrosive coating is recommended in water supply (for protection of water-carrying pipes) since it does not affect the organoleptic properties of water or its chemical and bacterial composition. The silicate coating contains: liquid glass, water, ZnO, powdered chamotte, and iron ochre. N. P. [Translation of abstract].

SUB CODE: 06, 11

Card 1/1 hs

AKULOV, L.

An important link in technical progress in commerce.
Sov.torg. 33 no.7:5-6 J1 '60. (MIRA 13:7)
(Vending machines)

AKULOV, L.; VOLOSOV, G.

Development of the machinery industry manufacturing equipment
for trade. Sov. torr. 35 no.10:16-17 0 '61. (MIRA 14:12)
(Machinery industry)

BUDNEVICH, S.S.; KONDRYAKOV, I.K.; AKULOV, L.A.; GOLOVKO, G.A. (USSR)

"Utilization of a Combined Expansion cycle in Liquid Air Separating Installation."

Report submitted for the 11th Intl. Congress of Refrigeration, Munich, Germany, 27 Aug - 4 Sep 63.

BUDNEVICH, S.S., kand. tekhn. nauk; KONDRYAKOV, I.K., kand. tekhn. nauk;
AKULOV, L.A., inzh.

Throttling of moist air. Izv. vys. ucheb. zav.; energ. 7
no.10:101-104 O '64. (MIRA 17:12)

1. Leningradskiy tekhnologicheskoy institut kholodil'noy
promyshlennosti. Predstavleno kafedroy glubokogo okhlazhdeniya.

... .. after, oxygen

NO

Card 1, 1

ACC NR: AP6002004 55 SOURCE CODE: UR/0170/65/009/006/0802/0803 59
 AUTHOR: Novotel'nov, V. N.; Akulov, L. A. 55
 ORG: Technological Institute of the Refrigeration Industry, Leningrad
 (Tekhnologicheskii institut kholodil'noy promyshlennosti)
 TITLE: Analytical expression for the dependence of the density of
 liquid oxygen on temperature and pressure 11,55
 SOURCE: Inzhenerno-fizicheskii zhurnal, v. 9, no. 6, 1965, 802-803
 TOPIC TAGS: thermodynamic property, liquid oxygen, fluid density,
 temperature, pressure
 ABSTRACT: The article proposes an approximate relationship between the
 density ρ , temperature T , and pressure p of liquid oxygen. Data from the
 literature were processed by the method of least squares. For the
 determination of the density of liquid oxygen in the temperature range
 from 153 to 83 K at pressures of $(78.5 - 196) \times 10^3 \text{ n/m}^2$, the following
 analytical relationship is recommended:

$$\rho = a_0 + a_1 \left(\frac{T}{100} \right) + a_2 \left(\frac{T}{100} \right)^2;$$

 Card 1/2 UDC: 532.10+532.14

L 11244-66

ACC NR. AP6002004

$$a_0 = 1,48472 - 0,08545 \left(\frac{1}{p} \right) \cdot 10^7 - 0,06936 \left(\frac{1}{p} \right)^2 \cdot 10^{14};$$

$$a_1 = -0,3210 + 0,27106 \left(\frac{1}{p} \right) \cdot 10^7 + 0,096632 \left(\frac{1}{p} \right)^2 \cdot 10^{14};$$

$$a_2 = -0,000412 - 0,25723 \left(\frac{1}{p} \right) \cdot 10^7 - 0,0026284 \left(\frac{1}{p} \right)^2 \cdot 10^{14}.$$

Results calculated by this relationship gave satisfactory agreement with experimental data. The largest error was at temperatures of 153-158K and pressures of (78.5-98.0) $\times 10^5$ n/m². For the other regions, the deviation was less than 1%. Orig. art. has: 1 table. [06]

SUB CODE: 20/ SUBM DATE: 14Jul65/ ORIG REF: 002/ OTH REF: 002
 STD PRESS: 4174

PC
 Card 2/2

[S.]
AKULOV, L.; GRIN, G.

[Weighing methods in trade] Vesovoe khoziaistvo v trgovle. Moskva, Gos-
torgizdat, 1948. 70 p.

(MLRA 6:8)
(Scales (Weighing instruments))

L 36185-66 EWT(m)/EWP(t)/ETI IJP(c) JD/WW/JW

ACC NR: AP6010750

SOURCE CODE: UR/0076/66/040/003/0708/0709

AUTHOR: Akulov, L. A.; Novotel'nov, V. N.

ORG: Leningrad Technological Institute of the Refrigeration Industry (Leningradskiy tekhnologicheskii institut kholodil'noy promyshlennosti)

TITLE: Temperature and pressure dependence of the density of liquid nitrogen

SOURCE: Zhurnal fizicheskoy khimii, v. 40, no. 3, 1966, 708-709

TOPIC TAGS: liquid nitrogen, fluid density, temperature dependence, pressure

ABSTRACT: An equation is proposed for determining the density of liquid nitrogen in the temperature range of 78-133°K and pressure range of (50-500) 10⁵ n/m². In order to obtain the dependence in its simplest form, an attempt was made to correlate the density and temperature by the quadratic relation

$$\rho = a_0 + a_1(T/100) + a_2(T/100)^2,$$

where a_0 , a_1 and a_2 are pressure-dependent coefficients. In finding these coefficients, best results are obtained with a logarithmic dependence of the form $a = A + B \log p + C(\log p)$, which permits one to obtain the density with a high accuracy for practical applications. In their final form, the expressions for determining coeffi-

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Card 1/2

L 36185-66

ACC NR: AP6010750

coefficients a_0 , a_1 and a_2 for the indicated temperature and pressure range are as follows:

$$a_0 = -33.89402 + 9.31063 \log p - 0.6184 (\log p)^2,$$

$$a_1 = 79.14061 - 21.18851 \log p + 1.4112 (\log p)^2,$$

$$a_2 = -41.66573 + 10.9808 \log p - 0.7228 (\log p)^2,$$

where p is the pressure in n/m^2 , T the temperature in $^\circ\text{K}$, and ρ the density in g/cm^3 .
Orig.art. has: 4 formulas.

SUB CODE: 20/ SUBM DATE: 22Apr65/ ORIG REF: 002/ OTH REF: 004

Card 2/2 MLP

AKULOV, L. S.

Author: Akulov, L. S.

Title: The Cooling Machine FAK-06. (Kholodil'naya mashina FAK-0, 6.) 30 p.

City: Moscow

Publisher:

~~Publication:~~ State Printing House of Technical and Theoretical Literature

Date: 1950

Available: Library of Congress

Source: Monthly List of Russian Accessions, Vol. 3, No. 12, p. 026

AKULOV, L.S.; GRIN, G.V.

[Weighing methods in Soviet trade] Vesovoe khoziaistvo v sovetskoi
torgovle. Izd. 2., dop. Moskva, Gostorgizdat, 1953. 73 p. (MLRA 6:8)
(Scales (Weighing instruments))

1. AKULOV, L. [S.]
 2. USSR (600)
 4. Cutting Machines
 7. Automatic sausage slicer, Sov. tovg. No.3,,1953.
9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

AKULOV, Leonid Sergeyevich; BEK-KAZAROV, Paylak Tigranovich; KAMINSKIY, Ya.A.;
MOVSHOVICH, I.L.; ORLOV, G.F.; PASHKOV, B.I.; POLOVNIKOV, A.P.;
CHERNOV, G.L.; SHAKULOV, S.A.; ISHKOVA, A.K., red.; LYUDSKOV, B.P.;
SUDAK, D.M., tekhn. red.

[Layout and equipment for commercial enterprises] Ustroistvo i
oborudovanie torgovykh predpriatii. Moskva, Gos. izd-vo torg.
lit-ry, 1958. 411 p. (MIRA 11:7)

(Stores, Retail)

AKULOV, L.S.; ACHIL'DIYEV, U.I.; VOLOSOV, G.D.; GORDON, L.I.; GRIN, G.V.;
GRONOV, M.A.; KIRILLOV, A.Ya.; LIFSHITS, N.I.; MITROPOL'SKIY, A.V.;
RAYSKIY, I.D.; SMIRNOV, V.B.; FAYVUSOVICH, A.Kh.; FEDOROVA, I.Yu.;
TSYPIN, I.M.; CHEKHOVICH, D.I.; ISHKOVA, A.K., red.; SUDAK, D.M.,
tekhn.red.

[Handbook on equipment for commercial enterprises and public food
service] Spravochnik po oborudovaniyu dlia predpriyatii trgovli
i obshchestvennogo pitaniia. Moskva, Gos.izd-vo torg.lit-ry,
1959. 322 p. (MIRA 12:12)

1. Inzhenerno-tekhnicheskiye rabotniki Upravleniya trgovogo
oborudovaniya i Tsentral'nogo konstruktorskogo byuro trgovogo
mashinostroyeniya (for all except Ishkova, Sudak).
(Business enterprises--Equipment and supplies)
(Restaurants, lunchrooms, etc.--Equipment and supplies)

AKULOV, L.S.; ACHIL'DIYEV, U.I.; VOLOSOV, G.D.; GORDON, L.I.; GRIN, G.V.;
GROMOV, M.A.; KIRILLOV, A.Ya.; LIFSHITS, N.I.; MITROPOL'SKIY, A.V.;
RAYSKIY, I.D.; SMIRNOV, V.B.; PAYVUSOVICH, A.Kh.; FEDOROVA, I.Yu.;
TSYPIN, I.M.; CHEKHOVICH, D.I.; ISHKOVA, A.I., red.; KISELEVA, A.A., tekhn.red.

[Handbook on equipment for commercial enterprises and public food
service] Spravochnik po oborudovaniyu dlia predpriatii trgovli i
obshchestvennogo pitaniia. Izd.2., dop. Moskva, Gos. izd-vo torg.
lit-ry, 1960. 333 p. (MIRA 14:10)

(Restaurants, lunchrooms, etc.--Equipment and supplies)

AKULOV, Leonid Sergeyevich; VOLOSOV, Georgiy Davydovich;
KUL'CHITSKIY, Vadim Stepanovich

[Commercial technical equipment; a handbook] Torgovo-
tekhnologicheskoe oborudovanie; spravochnik. Moskva,
Ekonomika, 1964. 279 p. (MIRA 18:1)

AKULOV, Mikhail Rodionovich; KOPYLOVA, L.P., red.; SHADRINA, N.D., tekhn.
red.

[Trade-union movement in Siberia up to the Great October Socialist
Revolution] Profsoiuzy Sibiri do Velikoi Oktiabr'skoi sotsialisti-
cheskoi revoliutsii. [Moskva] izd-vo VTsSPS Profizdat, 1957. 100 p.
(Siberia--Trade unions) (MIRA 11:5)

AKULOV, N.P., kandidat tekhnicheskikh nauk.

Efficiency of drainage in flooded building construction sites. Gidr.stroi.
22 no.10:46 0 '53. (MLRA 6:10)
(Drainage)

AKULOV, N. F.

OGURTSOV, Anatoliy Il'ich, inzhener; KONDALOV, I.I., professor, redaktor;
~~AKULOV, N.F.~~, kandidat tekhnicheskikh nauk, redaktor; SAFONOV, P.V.,
redaktor izdatel'stva; GUSEVA, S.S., tekhnicheskii redaktor

[Hydraulic fill methods for building earth dams] Namyv zemlianykh
sooruzhenii. Pod obshchei red. I.I.Kandalova. Moskva, Gos.izd-vo
lit-ry po stroit. i arkhitekt., 1957. 177 p. (MLRA 10:10)
(Dams)

(1) AND THE OTHERS										(2) AND THE OTHERS									
PROCESSES AND PROPERTIES INDEX										PROCESSES AND PROPERTIES INDEX									
AKULOV, N.S.										A-1									
BC										A-1									
UNCLASSIFIED BY: N.S. AKULOV (2708.12.81) DATE: 12-12-81 REASON: Known methods are described. BY: R.T.										UNCLASSIFIED BY: N.S. AKULOV (2708.12.81) DATE: 12-12-81 REASON: Known methods are described. BY: R.T.									
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1ST AND 2ND CODES		3RD AND 4TH CODES	
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PROCESSES AND PROPERTIES INDEX			
BC Multiparametric analysis [of steels]. N. S. Akulev and M. A. Gerasimov (Zavod. Lab., 1986, 6, 603-607). The mechanical properties of steels are evaluated on the basis of measurements of the higher harmonics obtained in magnetic fields. R. T.			
ASB-ILA METALLURGICAL LITERATURE CLASSIFICATION			
1ST AND 2ND CODES		3RD AND 4TH CODES	
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AKULOV, N. S.
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4761. Theory of Dependence of Ferromagnetic Properties of Metals on Temperature. N. Akulov. *Comptes Rendus (Doklady) de l'Acad. des Sciences, U.S.S.R.* 138, pp. 448-450, 1957. In English. — Ferromagnetic crystals are today regarded as consisting of areas of spontaneous magnetization. The structure of these areas is not yet clear and a simple pattern is suggested which permits development of the theory of the dependence of ferromagnetic phenomena on temperature. Each area of spontaneous magnetization with resultant spin J_s is, under the action of temperature, divided into a group of smaller areas having the moment $J_s > J_s$ (J_s = saturation at absolute zero). The spins J_s precess about J_s at different angles θ_s representing the functions of temperature, viz., $J_s = J_s \sum W_s \cos \theta_s$, where W_s is the probability of precession at the angle θ_s ; if a be a parameter characterizing some electric, magnetic or mechanical property of the metal at absolute zero, then the value of this parameter may be deduced at any temperature between absolute zero and the Curie point. It is shown how the method may be applied to the deduction of laws for the effect of temperature on the curves of magnetization of crystals (parallel and normal components), magnetostriction, mechanostriiction, thermomagnetic effect, influence of tension on magnetization curves, Thomson effect and the galvanomagnetic effect. The demonstration of the truth of the principle of equivalence at low temperatures (enunciated by the author) is also possible. H. J. H. S.

AST-11-A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
AKULOV, N.S.										2									
Thermomagnetic bi-anisotropy of crystals. N. S. Akulov and R. G. Annanov. <i>J. Exptl. Theoret. Phys. (U.S.S.R.)</i> 8, 894-91 (1968); <i>Met. Abstracts (in Metals & Alloys)</i> 10, No. 1, 49 (1969).—Theoretical. A new method for measuring thermomagnetic properties of ferrimagnetic crystals is described in detail. The effect of the bi-anisotropy of these crystals on their thermomagnetic properties was detd. The relation between the thermomagnetic effect and the mutual position of the magnetizing force, temp. gradient and the crystal axes is treated analytically. C. L. B.																			
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1ST AND 2ND COLUMNS										3RD AND 4TH COLUMNS									
PROCESSING AND PROPERTIES INDEX																			
REKVL-0V, N.S. (C.1)										Kinetics of the plastic deformation of crystals. N. I. Alkhus, and I. A. Bazarin. <i>J. Exptl. Theoret. Phys.</i> (U. S. S. R.) 5, 765 + 2 pp. of microphotographs (1936). -- Hexagonal crystals of the hexagonal system Co and metallic Fe, deformed and undeformed, were studied up to 35.5 kg./sq. mm. The results indicate two different types of plastic deformation. P. H. Hathmann									
ADD. 5.1.1 METALLURGICAL LITERATURE CLASSIFICATION																			
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Akulov, N. S. *Ferrromagnetism*. [In Russian.] Pp. 183. 1930. Moscow
and Leningrad : Gostechteoretizdat. (5.25 Rbl.).

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16

The Problem of Determining the Thickness of Corrosion-Resisting Coatings. N. S. Akulov. (Vestnik Metallopromyshlennosti, 1939, No. 9, pp. 78-80). (In Russian). A simple pocket instrument of the magnetic type has been constructed for measuring the thickness of non-magnetic coatings on steel. The force required to pull the poles of the magnet from the surface is automatically recorded by the instrument. A high sensitivity, variable within wide limits, and a linear scale are special features of the instrument.

ASB-55A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND CIPHERS

3RD AND 4TH CIPHERS

PROCESSES AND PROPERTIES INDEX

COMMON ELEMENTS

COMMON VARIABLE INDEX

1ST AND 2ND CIPHERS

3RD AND 4TH CIPHERS

PROCESSES AND PROPERTIES INDEX

COMMON ELEMENTS

COMMON VARIABLE INDEX

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On the Determination of the Thickness of Protective Coatings. N. S. Akhlyar (Voen. Metalloproiz. (Metal Ind. Herald), 1939, 19, (II), 78-80); *Chem. Zvesti.*, 1940, 111, (II), 268).—[In Russian.] A magnetic testing apparatus is described for determining the expenditure of energy required to remove a coating (e.g. nickel). (On the basis of the expenditure of energy, registered automatically, the thickness of the coating may be calculated from a simple formula. The apparatus is in pocket form and may be usefully applied in industry for the usual thicknesses of coatings of 0.50 μ).

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